SEQUENCE LISTING

<110> Norris et al.

<120> TISSUE-SPECIFIC AND PATHOGEN-SPECIFIC TOXIC AGENTS AND RIBOZYMES

<130> 9175-016-999

<140> 09/548,449
<141> 2000-04-13

<150> 09/291,904
<151> 1999-04-14

<160> 14

<170> FastSEQ for Windows Version 3.0

A10

<210> 1
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> LEASHI promoter

<400> 1
gatcctcaga aaattatttt aaatttccaa ttgacattgt gagcggataa caatataatg 60
tgtgga 66

<210> 2
<211> 74
<212> DNA
<213> Artificial Sequence

<220>
<223> Modified rrnb promoter

<400> 2
agaaagcaaa aataaatgct tgacactgta gcgggaaggc gtataatgga attgtgagcg 60
gataacaatt caca 74

<210> 3
<211> 492
<212> DNA
<213> Artificial Sequence

<220>
<223> ANR promoter

<400> 3
actcgcggat catcttcacc atcggccgca actcctgcgg gatatcctcg tcctcctcct 60
ccaccggcac ccccatggta gcggccagct cgcgccctgc ctgggaaagc tgtacatgct 120
gatcggcggc gtcggtgccg gcggccgggt cttccgcctg ctcggcggtg ccggtccgtg 180
cggccttggc gtccgcggcg gcgcgcgatg agggcggcac ctgggtggtg atccagccac 240
tgagggtcaa cattccagtc actccgggaa aaatggaatt cttccattgg atcggcccac 300

gcgtcgcgaa cttgagcccc cttttcgtcg ccccttgaca gggtgcgaca ggtagtcgca 360
gttgtttgac gcaagtcact gattggaaac gccatcggcc tgtcagaaat ggtcgttgcc 420
agacctatgg ctggcacccg catcgcggct gcgttaccct tactcctgtt gtgcctttaa 480
cctagcaagg ac 492

<210> 4
<211> 1113
<212> DNA
<213> Artificial Sequence

<220>
<223> ProC promoter

<400> 4
aattcctcga agtccttgcg ctgcttgtcg ttcatgatgt cgtagatcag cgcatgcacc 60
tgcttgtgtt ccagcggtgg caggttgatc cggcgtacat cgccatccac ccggatcatg 120
ggtggcaggc cggcggagag gtgcaggtcc gaagcgccct gtttggcact gaaggcgagc 180
agctcggtaa tatccatggg actccccaat tacaagcaag caggtagaat gccgccaaag 240
ccgccgtctc ggacaaggaa aacaccggat gagccagggt gcttccagga cacgcgtggt 300
gtcctgcgcc agacgcggaa cctcgacact ggaacaggaa gatggccatc gaggccggcg 360
gtttcgaggg cgtcgagccg acgccgaccg cacttccata gggcgcaggt aatgtccacg 420
atagcagaga atattgcaaa ggttgccgcg cgcatccgtg aggcagcgca agctgcgggg 480
cgcgatccgg ccacggtcgg cctgctcgcc gtgagcaaga ccaagcccgc cgccgcggtg 540
cgcgaggcgc acgccgccgg ccttcgcgac ttcggcgaaa actacctgca ggaggccctc 600
ggcaagcagg ccgaactggc cgacctgccc ttgaactggc acttcatcgg ccccatccag 660
tcgaacaaga cgcggcccat cgccgagcat ttccagtggg tgcactcggt ggaccggttg 720
aagatcgcgc agcgcctgtc ggagcaacgc ccggccgggc tgccgccccc gaatgtctgc 780
ctgcaggtca acgtcagcgg cgaagccagc aagtccggct gcgcccccga ggacctgccg 840
gccctggccg aggccgtgaa gcaactgccc aacctccgat tgcgtggcct gatggccatc 900
cccgaaccca ccgccgaacg cgccgcgcaa cacgccgcgt tcgcccgcct gcgcgaactg 960
ctgctggacc tgaaccttgg cctggacacc ctgtccatgg gcatgagcga cgacctcgag 1020
gcagccatcg gcgaaggtgc gacctgggtc cgcatcggta ccgccctgtt cggcgcccgc 1080
gactacggcg cgccggcttc ttgaatgaat ccc 1113

<210> 5
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> ARC promoter

<400> 5
ctagagctat tgatgtggat caacattgtc cactagccgc tgccgcctaa tctccagaat 60
tgtgag 66

<210> 6
<211> 2120
<212> DNA
<213> Staphylococcus aureus

<400> 6
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ttatatatgc atttataaaa ttttcaagat aatttattat tcataccctt gccctttgtt 120
tcaaaattat gccctttttt tgcccttgga aacaaccaca ctcctaaatt aataggtggt 180
gtggtttgat catttataat ataacataaa aacaaccacc cagtaactag tatgagtggc 240
gtagcgacta taacaactct atgttatcaa gatatatgta tatgagtgat gacaaggaag 300
atgtctcctg tgagaccaac agccagatat atggcctctt gccgggctat atagttcact 360

A10

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cctactatat acacatgtaa ttataacata aaaaaataga caagtaccga agtacctgcc     420
taaataacaa caagattaac atgtgaataa tggaaataaa aagtcagccc gaaggctaac     480
ttacgaatag atgaaaattt gaacacattg ctgtgtctaa aatgattata gcataaataa     540
cgaatatttc cagctcgaaa ttaatatatt gtaataataa tattttatat ctttgttaat     600
aattatttaa ttgatttaca taaataataa ttgtaaaatt aatttgtaat cgattgcaaa     660
taagttatag gagaaaataa aatgaataaa aaactattaa caaaaacatt gatagcaagt     720
gctttagttt taacaacagt aggttcaggt tttcattctt cttcaaatta taatggtatt     780
aataacgttg aaaaagctga gcaaacgaca gataacgcat tgtggaaaaa tgtaagagac     840
gctttaaaag acgcgaatat tatcgataaa acagataatg aaaatgtcaa ggttacgtat     900
aaaatagaaa atggtggaga aaataccata gaaggaacag ttaatttaga aaatattagt     960
acttcaaaca atcctaaaat aaaccctcaa aatgttacaa aaattaatat aactagaaaa    1020
aatccgaact accctaatat tgatgctaat aatacatgga aaaaattacc agaaaaattg    1080
aaagaaaaaa atatagtgga acaacggcga caatgtttca atcttaagta cagaccctaa    1140
agatgagact gtattcggta aagtaggaga agataaatca aacgtaagca atagatacat    1200
caatcctaaa gatataaatg aattcaaatc actaaaaata ctttttccg aggcagatta     1260
ctcctgcctc tttctttgaa cagtgatatc ttctgatcta tgtaacactc aattacttca    1320
gattctttac ctttaacttc ctttaattca tttctctcta tctcctcaaa aagttgtgct    1380
ttttgatttg tgattggagt tgggcgtttt ttcatcgcgt tgtttcaatt ccttttttaag   1440
gtattctaat tctcttctag tcatatcaat tgtttttta cttctcacct ttagtgaaat     1500
actcttatcc tttctcttct tgcgttaatg ttgctaatta gtataaaata catgcgccca    1560
tatattccaa tggtaggaca tttaattctg gattttcagc tattttcata aatctattat    1620
ctgataattt gcttaatcca attttcaagc catagcctaa attccccatc cactaagtca    1680
ttttgtttca tatggtttta atctacggcc aatctcaaag atagattgac cagcgatgtt    1740
taaagtcata tttcacggat ccacatttac gataaacata tctagttaca caatattatc    1800
ccttactgca acacaggacg tttctcagcg taaaaaacac cactagaaag tgactttaaa    1860
gaatataact aattcaaact tatattaatt aatattcttt aaatgaccac tcacactttg    1920
ttttttgcta tttgtaactt taaaatgttg tttgaaatct atatttttt gatatagctc     1980
cctatgtaac aaacaatttt taattaatat atatttaaac aagtcaattt agagatcggt    2040
taattcgatt catttaaata atatttatac attctatatg taaacgttta cacatttgaa    2100
gtaaggagaa ttaaaaatga                                               2120
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<210> 7
<211> 177
<212> DNA
<213> Artificial Sequence

<220>
<223> P1 pac site

<221> CDS
<222> (1)...(177)

<400> 7

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cca cta aaa agc atg atc att gat cac tct aat gat caa cat gca ggt       48
Pro Leu Lys Ser Met Ile Ile Asp His Ser Asn Asp Gln His Ala Gly
 1               5                  10                  15

gat cac att gcg gct gaa ata gcg gaa aaa caa aga gtt aat gcc gtt       96
Asp His Ile Ala Ala Glu Ile Ala Glu Lys Gln Arg Val Asn Ala Val
             20                  25                  30

gtc agt gcc gca gtc gag aat gcg aag cgc caa aat aag cgc ata aat      144
Val Ser Ala Ala Val Glu Asn Ala Lys Arg Gln Asn Lys Arg Ile Asn
         35                  40                  45

gat cgt tca gat gat cat gac gtg atc acc cgc                         177
Asp Arg Ser Asp Asp His Asp Val Ile Thr Arg
     50                  55
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<210> 8
<211>13
<212> DNA
<213> Artificial Sequence

<220>
<223> IHF binding site

<221> modified_base
<222> all "n" positions
<223> n=a, c, g, or t

<400> 8
aatcaannantta
17

<210> 9
<211> 45
<212> DNA
<213> Artificial Sequence

A10

<220>
<223> DicF1 molecule

<400> 9
caggcgacag gtatagtttc tctccgattt gtgcctgtcg cctgc 45

<210> 10
<211> 172
<212> RNA
<213> Artificial Sequence

<220>
<223> ribozyme

<221> modified_base
<222> all "n" positions
<223> n=a, c, g, or u

<400> 10
gcggccgcuc gagcucugau gaguccguga ggacgaaacg guacccggua ccgucagcuc 60
gagaucucun nnnnnncuga ugaguccgug aggacgaaan nnnnagaucc gucgacggau 120
cuagauccgu ccugaugagu ccgugaggac gaaacggauc ugcagcggcc gc 172

<210> 11
<211> 242
<212> RNA
<213> Artificial Sequence

<220>
<223> ribozyme

<221> modified_base
<222> all "n" positions
<223> n=a, c, g, or u

<400> 11

aagcuuugga acccugauga guccgugagg acgaaacgau gacauucugc ugaccagauu 60
cacggucagc agaaugucau cgucgguucc agauccnnnn nncugaugag uccgugagga 120
cgaaannnnn nnnngcaagg gucugcgcaa cgacgacgau gagguaccac aucgucgucg 180
uugcgcacug augaggccgu gaggccgaaa cccuugacgc guuccuaugc ggccgcucua 240
ga 242

<210> 12
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> consensus ribosome binding site

<221> modified_base
<222> (8)...(11)
<223> n=a, c, g, or t

A10

<400> 12
ggaggtgnnn natg 14

<210> 13
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> promoter

<400> 13
gagtcgacgg atccgg 16

<210> 14
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> promoter

<400> 14
tgggggtggg ggtgggg 17